



# Sri Y N College

(Autonomous)

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Thrice Accredited by NAAC with 'A' Grade

Narsapur - 534275, West Godavari District, Andhra Pradesh

## DEPARTMENT OF PHYSICS

### Action Taken Report on Design and Review of Syllabus 2022-23


S. No	Suggestions Offered	Action Taken
1	<b>MECHANICS, WAVES AND OSCILLATIONS</b> 1. Motion in a Central Force Field: Basic idea of Global Positioning System (GPS), weightlessness, Physiological effects of astronauts  2. Coupled oscillations: (05 hrs) Coupled oscillators-Introduction, Two coupled oscillators, Normal coordinates and Normal modes- N-coupled oscillators and wave equation. 3. Complex vibrations: Fourier theorem and evaluation of the Fourier coefficients, analysis of periodic wave functions-square wave.	<b>MECHANICS, WAVES AND OSCILLATIONS</b> 1. Motion in a Central Force Field: Basic idea of Global Positioning System (GPS), weightlessness, Physiological effects of astronauts  2. Coupled oscillations: (05 hrs) Coupled oscillators-Introduction, Two coupled oscillators, Normal coordinates and Normal modes- N-coupled oscillators and wave equation. 3. Complex vibrations: Fourier theorem and evaluation of the Fourier coefficients, analysis of periodic wave functions-square wave.
2	<b>WAVE OPTICS</b> Interference of light: Lloyd's single mirror, Phase change on reflection-Stokes' treatment. Diffraction of light Explanation of rectilinear propagation of light. Polarisation of light: Basic principle of LCDs.	<b>WAVE OPTICS</b> Interference of light: Lloyd's single mirror, Phase change on reflection-Stokes' treatment. Diffraction of light Explanation of rectilinear propagation of light. Polarisation of light: Basic principle of LCDs.

3	<b>WAVE OPTICS</b> Astigmatism -- Curvature of field – distortion. 1. Calculation of longitudinal chromatic aberration of a thin lens 2. Non reflecting films 3. Semi conductor laser -- Laser characteristics <b>HEAT &amp; THERMODYNAMICS</b> 4. Thermodynamics-scale of temperature. 5. Characteristics of Ideal Refrigerant 6. Principle of refrigeration	<b>WAVE OPTICS</b> Astigmatism -- Curvature of field – distortion. 1. Calculation of longitudinal chromatic aberration of a thin lens 2. Non reflecting films 3. Semi conductor laser -- Laser characteristics <b>HEAT &amp; THERMODYNAMICS</b> 4. Thermodynamics-scale of temperature.
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	7. Vapour compression type refrigerator 8. Degrees of freedom 9. Thermodynamic scale of temperature and its identity with perfect gas scale	5. Characteristics of Ideal Refrigerant 6. Principle of refrigeration 7. Vapour compression type refrigerator 8. Degrees of freedom 9. Thermodynamic scale of temperature and its identity with perfect gas scale
5	<b>ELECTRICITY, MAGNETISM AND ELECTRONICS</b> 1. Electric Flux 2. Polar and non-polar dielectrics in an electric field 3. Magnetic Shell, 4. Divergence and curl of magnetic field 5. Qualitative treatment, 6. Magnetic properties of dia, para and Ferro magnetic materials 7. Langevins theory of para magnetism 8. Weiss theory of Ferro magnetism 9. Energy losses and efficiency. 10. Construction of single phase ac motor, 11. Construction of single phase dc motor. 12. Band theory of solids (qualitative) – Intrinsic and extrinsic semi conductors. Hybrid parameters, Determination of hybrid parameters from transistor characteristics	<b>ELECTRICITY, MAGNETISM AND ELECTRONICS</b> 1. Electric Flux 2. Polar and non-polar dielectrics in an electric field 3. Magnetic Shell, 4. Divergence and curl of magnetic field 5. Qualitative treatment, 6. Magnetic properties of dia, para and Ferro magnetic materials 7. Langevins theory of para magnetism 8. Weiss theory of Ferro magnetism 9. Energy losses and efficiency. 10. Construction of single phase ac motor, 11. Construction of single phase dc motor. 12. Band theory of solids (qualitative) – Intrinsic and extrinsic semi conductors. Hybrid parameters, Determination of hybrid parameters from transistor characteristics

6	<b>MODERN PHYSICS</b> <ol style="list-style-type: none"> <li>Bohr's atomic theory,</li> <li>Spectra of Hydrogen,</li> <li>Spectral terms and spectral notations, Selection rules, Intensity rules</li> <li>Photoelectric effect-Einstein photoelectric equation.</li> <li>Stability of atom.</li> <li>Bohr's principle of complementarity</li> <li>Limitations of old quantum theory.</li> </ol>	<b>MODERN PHYSICS</b> <ol style="list-style-type: none"> <li>Bohr's atomic theory,</li> <li>Spectra of Hydrogen,</li> <li>Spectral terms and spectral notations, Selection rules, Intensity rules</li> <li>Photoelectric effect-Einstein photoelectric equation.</li> <li>Stability of atom.</li> <li>Bohr's principle of complementarity</li> </ol>
	<ol style="list-style-type: none"> <li>Particle in a box</li> <li>one dimensional harmonic oscillator</li> <li>Application of Schrodinger wave equation to particle in three dimensional boxes.</li> <li>Nuclear reaction,</li> <li>kinematics</li> <li>Calculation of Born coefficient and repulsive exponent. Born – Haber cycle.</li> <li>Persistent current, isotopic effect.</li> <li>Semi conductor nano particles</li> <li>carbon nano clusters</li> <li>BCS theory (elementary ideas only)</li> </ol>	<ol style="list-style-type: none"> <li>Limitations of old quantum theory.</li> <li>Particle in a box</li> <li>one dimensional harmonic oscillator</li> <li>Application of Schrodinger wave equation to particle in three dimensional boxes.</li> <li>Nuclear reaction,</li> <li>kinematics</li> <li>Calculation of Born coefficient and repulsive exponent. Born – Haber cycle.</li> <li>Persistent current, isotopic effect.</li> <li>Semi conductor nano particles</li> <li>carbon nano clusters</li> <li>BCS theory (elementary ideas only)</li> </ol>



  
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## Department of Electronics

### Action Taken Report on Design and Review of Syllabus 2022-23

S. No	Suggestions Offered	Action Taken
1	Implement initiatives to ensure diversity and inclusion within the department, fostering a welcoming environment for all students.	Diversity and inclusion initiatives were launched to promote a more inclusive and equitable learning environment.
2	Educate students on the importance of maintaining a healthy balance	The Digital Wellbeing Initiative was launched, offering workshops, seminars, and online resources to raise awareness about digital wellness and equip students with strategies for maintaining a healthy relationship with technology.
3	Establish a peer tutoring programme where senior students can mentor and assist junior students.	A peer tutoring programme was launched, pairing experienced senior students with juniors to provide academic guidance and support.

4	Offer flexible learning options, such as online courses or evening classes, to accommodate diverse student needs.	The department expanded its course delivery methods to include online courses and evening classes, providing greater flexibility for students.
5	Facilitate regular interactions between students and faculty members outside of the classroom.	The department encouraged faculty members to engage in informal interactions and office hours to build stronger relationships with students.



  
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## DEPARTMENT OF MICROBIOLOGY

### Action Taken Report on Design and Review of Syllabus 2022-23

S. No	Suggestions Offered	Action Taken
1	Emerging developments in the Microbiology field were lacking in the curriculum.	Each Course was updated with latest developments in the Revised Syllabus.
2	The depth of the course content is adequate in relation to the expected course outcomes.	The teaching strategies were put into practice in accordance with the course outcomes.
3	Courses Should be helpful in the Industrial Area, pharma companies, and research..	Curriculum Revised Including all the Suggested and modifications in the curriculum..
4	Students must be encouraged to take Higher Education and Research must be well informed of the opportunities in the field of Microbiology.	Career Prospect Classes were conducted for the Final Year Students.
5	Community service project, Short internship, Project work, and Internship Opportunities for Students.	Students are encouraged to do internship during Semester Break.



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## DEPARTMENT OF ZOOLOGY & FISHERIES

### Action Taken Report on Design and Review of Syllabus 2022-23

S.No	Suggestions Offered	Action Taken
1	Emerging rearing and culturing methods of fresh water Aquaculture for the better management practices.	Each Course was updated with latest developments in the Revised Syllabus.
2	The depth of the course content is adequate in relation to the expected course outcomes.	The teaching strategies were put into practice in accordance with the course outcomes.
3	Courses Should be helpful in the field of Aquaculture and other management practices.	Curriculum Revised Including all the Suggested Changes.
4	Students must be encouraged to take Higher Education and must be well informed about the opportunities in concerned field.	Career Prospect Classes were conducted for the Final Year Students.
5	Student Internship programme was conducted and trained for the final year Students at Fisheries research station Undi.	Students are encouraged to do their Indi dualinternship project during Semester Break.



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## DEPARTMENT OF BIOTECHNOLOGY

### Action Taken Report on Design and Review of Syllabus 2022-23

S.No	Suggestions Offered	Action Taken
1	Emerging developments in the Biotechnology field were lacking in the curriculum.	Each Course was updated with the latest developments in the Revised curriculum.
2	The depth of the course content is adequate in relation to the expected course outcomes.	The teaching strategies were put into practice in accordance with the course outcomes.
3	Courses Should be helpful in the Biotech Industrial, Biotech companies, and research.	Curriculum Revised Including all the Suggested and modifications in the curriculum.
4	Students must be encouraged to take Higher Education and Research must be well informed of the opportunities in the field of biotechnology	Career-oriented Classes were conducted for the final-year students.
5	Community service project, Short internship, Project work, and Internship Opportunities for Students.	Students are encouraged to do internships during Semester Break.



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## DEPARTMENT OF FASHION TECHNOLOGY AND APPAREL DESIGNING

### Action Taken Report on Design and Review of Syllabus 2022-23

S. No	Suggestions Offered	Action Taken
1	Extra learning concepts & subject related videos to improve their understanding about the learning objectives & concepts.	Virtual class was conducted regularly to help students get a full picture about the topic.
2	Felt the need to have industrial experts to handle special sessions on industry oriented subjects for value addition.	Special address by industrial experts was organized.
3	Courses Should be helpful in Industrial Area.	Curriculum Revised Including all the Suggested Changes.
4	Students must be encouraged to take Higher Education and must be well informed of the opportunities in the field.	Career Prospect Classes were conducted for the Final Year Students.
5	Internship Opportunities for Students.	Students are encouraged to do internship during Semester Break.



  
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## DEPARTMENT OF CHEMISTRY

### Action Taken Report on Design and Review of Syllabus 2022-23

S. No	Suggestions Offered	Action Taken
1	Community Service projects	Students are doing Community service projects
2	Short term internships	Students are doing short term internships after IV semester
3	Long term internships	Students are doing long term internships in the 6 <sup>th</sup> semester
4	The depth of the course content is adequate in relation to the expected course outcomes.	The teaching strategies were put into practice in accordance with the course outcomes.
5	Courses Should be helpful in Industrial Area.	Curriculum Revised Including all the Suggested Changes.
6	Students must be encouraged to take Higher Education and must be well informed of the opportunities in the field of Chemistry	Career Prospect Classes were conducted for the Final Year Students.



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## DEPARTMENT OF ECONOMICS

### Action Taken Report on Design and Review of Syllabus 2022-23

S.No	Suggestions Offered	Action Taken
1	Emerging Economics developments in the economics field were lacking in the curriculum.	Each Course was updated with latest Economics developments in the Revised Syllabus.
2	The depth of the course content is adequate in relation to the expected course outcomes.	The teaching strategies were put into practice in accordance with the course outcomes.
3	Courses Should be helpful in Industrial Area.	Curriculum Revised Including all the Suggested Changes.
4	Students must be encouraged to take Higher Education and must be well informed of the opportunities in the field.	Career Prospect Classes were conducted for the Final Year Students.
5	Internship Opportunities for Students.	Students are encouraged to do internship during Semester Break.



  
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## DEPARTMENT OF ENGLISH

### Action Taken Report on Design and Review of Syllabus 2022-23

S. No	Suggestions Offered	Action Taken
1	As our syllabus includes all parts of grammar lacking in the literature part in the curriculum.	Each course was updated by including famous poets and writers writings.
2	The depth of the course content is adequate in relation to the expected course outcomes.	The teaching strategies were put into practice in accordance with the course outcomes.
3	Courses should be helpful in communication and soft skills.	Curriculum received including all the suggested changes.
4	Students must be encouraged to take Higher Education and must be well informed of the opportunities in the field.	Mock interviews were conducted to build their career.
5	Internship Opportunities for Students.	Students are encouraged to do internship during Semester Break.



  
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